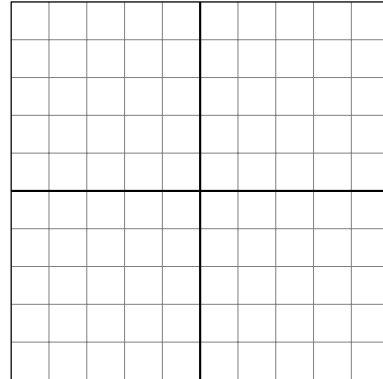




2. Consider the matrix

$$A = -\frac{1}{5} \begin{pmatrix} 8 & 3 \\ 2 & 7 \end{pmatrix}.$$

a) Find, draw, and label the eigenspaces of  $A$ .



b) Compute  $A^{100}$ .